

1. In a switching amplifier of the type wherein one or more references are
2 coupled to a load through gated switches controlled by a pulse-width modulated input
signal, the improvement comprising:

4 adding a minimum pulse width to some or all of the switching devices so as to
null the common-mode output presented to the load.

2. The improved switching amplifier of claim 1, wherein the switches are
2 arranged as differential pairs on either side of the load.

3. The improved switching amplifier of claim 1, wherein minimum pulse
2 width is added during the pulse-width modulation of the input signal.

4. An enhanced performance switching amplifier coupling an input signal to
2 a load, comprising:

at least one electrically controlled switch coupled to each side of the load; and

4 a waveform generator operative to perform the following functions:

- a) control the switches in accordance with the input signal, and
- 6 b) adding a minimum pulse width to so as to null common-mode output
presented to the load.

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5. The improved switching amplifier of claim 4, wherein the switches are
2 arranged as differential pairs on either side of the load.

6. The improved switching amplifier of claim 4, wherein minimum pulse
2 width is added by the pulse-width modulator.